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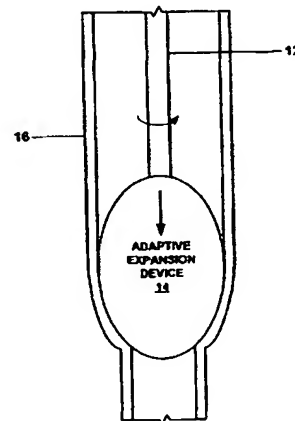
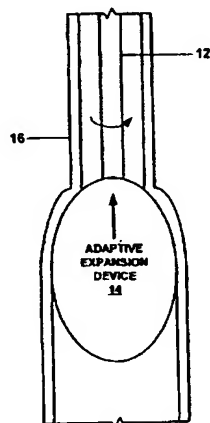
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- Declaration under Rule 4.17:**
— of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: **APPARATUS AND METHOD FOR RADially EXPANDING A WELLBORE CASING USING AN ADAPTIVE EXPANSION SYSTEM**



WO 2004/083591 A3

(57) Abstract: An apparatus and method for radially expanding a wellbore (34) using an adaptive expansion device (14).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08030

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : E21B 43/10, 23/00

US CL : 166/380, 207, 214, 250.01

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 166/380, 207, 214, 250.01

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	US 6,722,427 B2 (GANO et al) 20 April 2004 (20.04.2004), claims 10, 25, and 29.	13-18
T	US 2004/0065446 A1 (TRAN et al) 08 April 2004 (08.04.2004), paragraphs [0054] and [0057].	13-18
X, P	US 6,688,397 B2 (MCCLURKIN et al) 10 February 2004 (10.02.2004), column 6, lines 40-49.	13-18
A	US 5,253,713 A (GREGG et al) 19 October 1993 (19.10.1993), Figures 3 and 6-8, column 6, lines 57-66.	1-3
A	US 5,749,585 A (LEMBCKE) 12 May 1998 (12.05.1998), column 1, lines 45-55 and column 3, line 55 through column 4, line 8.	1-3
A	US 5,282,508 A (ELLINGSEN et al) 01 February 1994 (01.02.1994), column 19, lines 47-50 and claim 7.	4-6
A	US 6,012,521 A (ZUNKEL et al) 11 January 2000 (11.01.2000), column 13, lines 44-51.	4-6

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/08030

Continuation of B. FIELDS SEARCHED Item 3:

EAST: expansion cone, expansion tool, expansion device, expansion member, adaptive, spring rate, damping rate, adjusting frequency, adjusting operating characteristic